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Applicant: Dasa Lipovsek et al. Art Unit: 1653
Serial No.: 09/456,693 Examiner: Schnizer, H.
Filed: December 9, 1999 Customer No.: 31020
Title: PROTEIN SCAFFOLDS FOR ANTIBODY MIMICS AND OTHER
BINDING PROTEINS

Assistant Commissioner for Patents
Washington, D.C. 20231

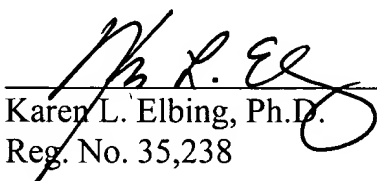
SUBMISSION OF SECOND SET OF FORMAL DRAWINGS

As requested, Applicants submit herewith a second set of formal drawings
identical to those submitted on January 17, 2002.

If there are any charges, or any credits, please apply them to Deposit Account No.
03-2095.

Respectfully submitted,

Date: 16 January 2003


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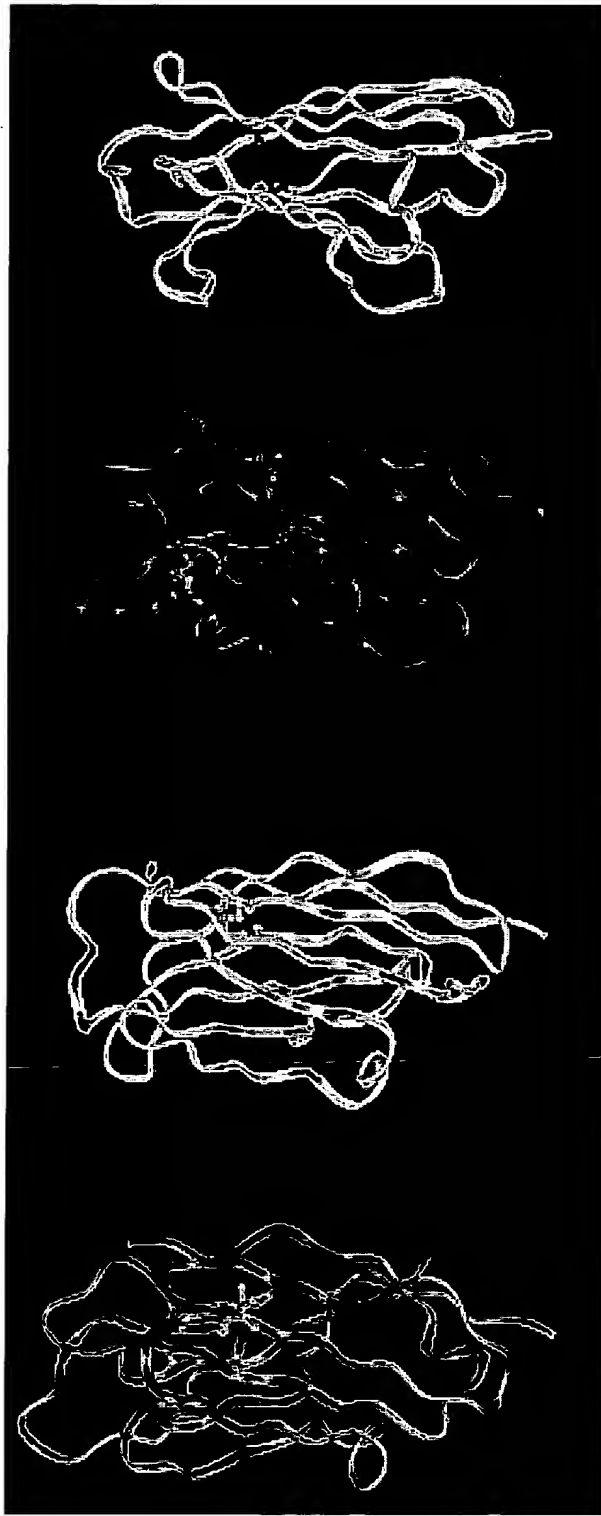


Fig. 1

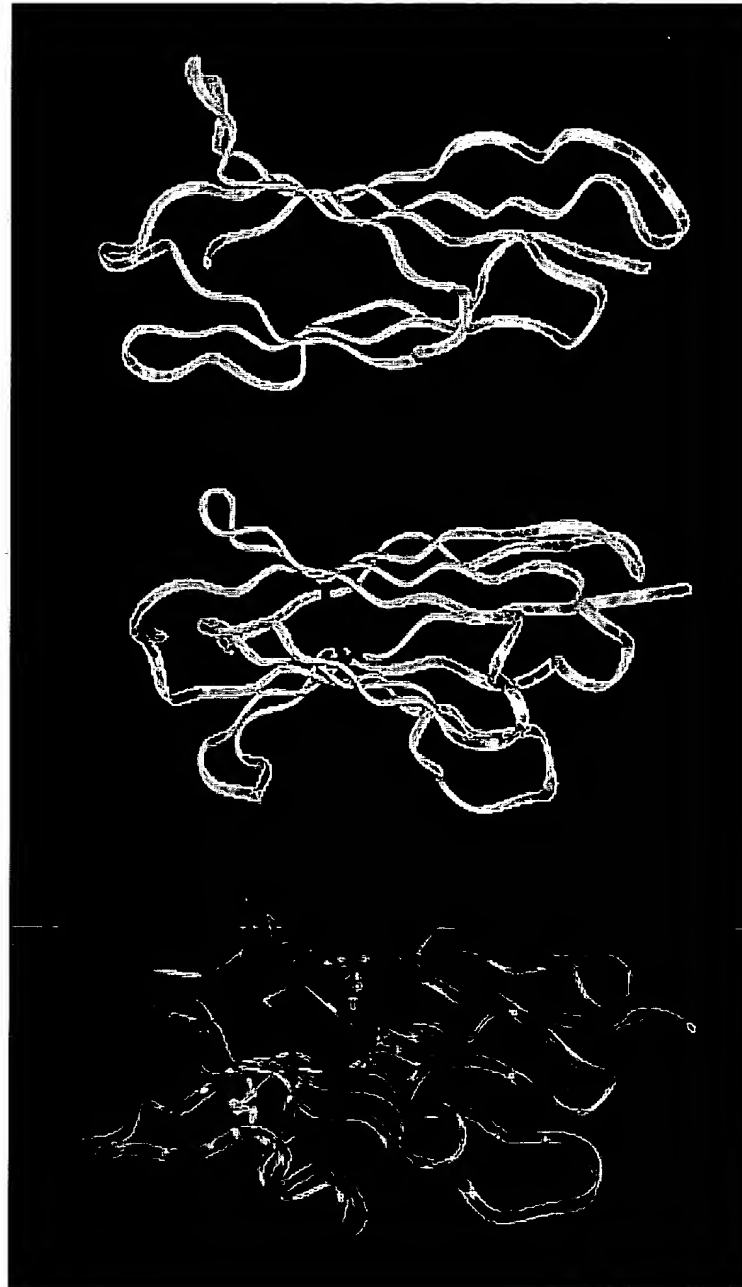


Fig. 2

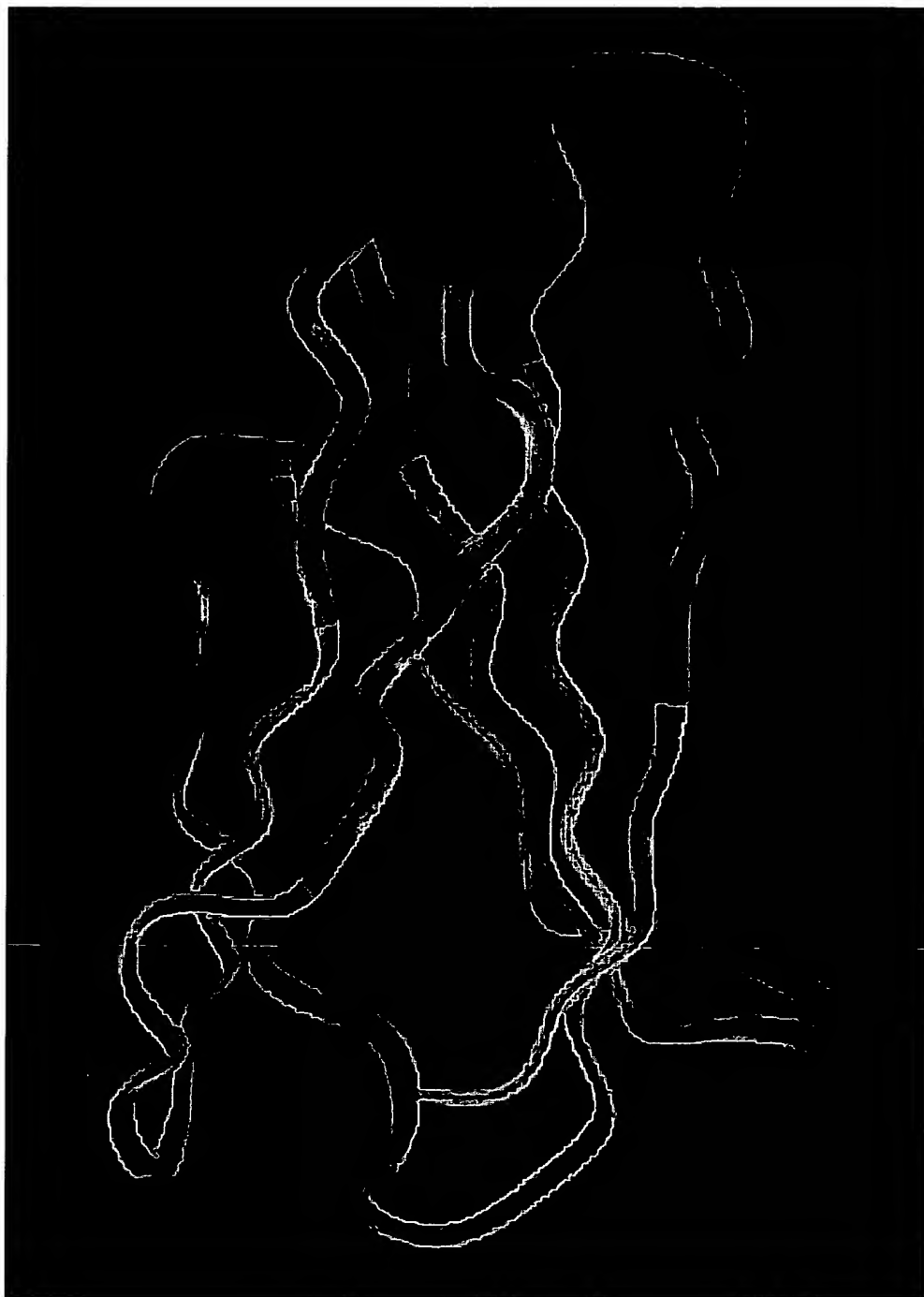


Fig. 3

Hs FND	1	9	10	19	20	29	30	37	38	47	48	57	58	67	68	77	78	87	88	94
VSDVPRD-LE	VAAATPTSLL	ISWDAPAVTV	RYRITYG--	ETGGNSPVQE	FTVPGSKSTA	TISGLKPGVD	YITTVYAVTG	RGDSPASSKP	ISINVRT											
Bt FN	VSDVPRD-LE	VIAATPTSLL	ISWDAPAVTV	RYRITYG--	ETGGNSPVQE	FTVPGSKSTA	TISGLKPGVD	YITTVYAVTG	RGDSPASSKP	VSINVRT										94
Rn FN	VSDVPRD-LE	VIASTPTSLL	ISWEPpAVSV	RYRITYG--	ETGGNSPVQE	FTVPGSKSTA	TINnIKPGAD	YTITLVAVTG	RGDSPASSKP	VSINVRT										1510
Mm FN	VSDIPRD-LE	VIASTPTSLL	ISWEPpAVSV	RYRITYG--	ETGGNSPVQE	FTVPGSKSTA	TINnIKPGAD	YTITLVAVTG	RGDSPASSKP	VSINVRT										1611
Oc FN	VSDVPRD-LE	VIASTPTSLL	ISWEXPAVTV	RYRITYG--	ETpN-----															712
Gg FN	VSDVPRD-LE	VnPtSPtSLE	ISWDAPAVTV	RYRITYG--	ETGGNSPVQE	FTVPGTMS-A	TITGLKPGVD	RGDSPASSKP	VTVTYKT											64
Xl FN	VSDVPTD-LE	VTSSSPNLT	ISWEAPAVSV	RYRITYS--	QTGGHGPEKE	FTVPGTSMTA	TIRGLNPGVS	YITTVYAVTG	RGDSPASSKP	LTIIHKT										443
Cf FN	AiDAPSn-Lr	FLATTpNsLL	VSWQpPrArI	TGYILKYE--	kpgSpprEVV	prprpGVtEA	TITGLepGTE	YTIQVtAlKn	NQKSepLLiGr	kKtAEL-										197
Ec FN	AiDAPSn-Lh	FLATTpNsLL	ISWQpPrArI	TGYILKYE--	kpgSpprEVV	prphpGVtEA	TITGLepGTE	YTIQVtAlKn	NQKSepLLiGr	rKtAEP-										197
Hs TC	VS-PPKD-Lv	VteVteetVN	LAWDn-eMrV	TeYLvVYTP-	-THEGGLEMQ	FrVPGDQrST	IIQeLePGVE	YFIRVFAiLE	NKKSipVSAr	V-----										686
Ss TP	VS-PPKD-Li	VteVteetVN	LAWDn-eMrV	TeYLvVYTP-	-THEGGLEMQ	FrVPGDQrST	TIReLePGVE	YFIRVFAiLE	NKKSipVSAr	V-----										686
Mm TX	MidGPQD-Lr	VWAVTPtTLD	LSWlrPQaEv	DrFVVSvV--	--SAGNqRvR	LeVPPEADrT	QLTdLMPGVE	YVTVTAERG	HAVSypASIr	ANTG---										889
Hs CAP	TlpVPvvsLn	IYdVGPTTMH	VQWQp-VGGA	TGYILSYKpV	kDTEpTrpKe	VrLGPTVNDM	QLTdLVPNTE	YAVTVQAVLh	dLTSepVTVr	e-----										1551
Oc C12	TlpVPvvsLn	IYdVGPTTMH	VQWQp-VGGA	TGYILSYKpV	kDTEpTrpKp	QdVtKLrdVTH														322
Gg C14	LalpmaSDlk	LYdVShSSMR	AKWNg-VAGA	TGYMLLYAPL	TEGLAADEKE	IKIGEASrTeL	ELDGLLPNTE	YTVTVYAMF-												508
Hs U1	LalpmaSDll	LYdVTenSMR	VKWDa-VpGA	SGYLILLYAPL	TEGLAGDEKE	MkIGETHrIdI	ELSGLLPNTE	YTVTVYAMFG	eeASDpVTGq	e-----										321

var.

cons.	P	<u>L</u>	V	SL	<u>W</u>	V	Y	I	<u>Y</u>	I	L	I	L	PGVD	<u>Y</u>	ITV	<u>A</u>	G	<u>S</u>	P
	M	I	I	TV	M	A	F	V	L	L	I	I	NTE	VQL	R	N	R	E	R	
													AS							

CAP	Collagen alpha precursor	BOLD	identical to Hs FND
C12	Collagen type 12	lower case	non-conservative substitution
FND	Fibronectin type III domain		(charge reversal, change between hydrophobic and charged, addition or removal of p)
FN	Fibronectin		position of non-conservative substitutions
TP	Tenascin precursor		
TC	Tenascin-C		
U1	Undulin 1		

Bt	Bovis taurus	cow
Cf	Canis familiaris	dog
Ec	Equus caballus	horse
Ss	Sus scrofa	pig
Hs	Homo sapiens	human
Oc	Oryctolagus cuniculus	rabbit
Xl	Xenopus laevis	African clawed frog

Fig. 4

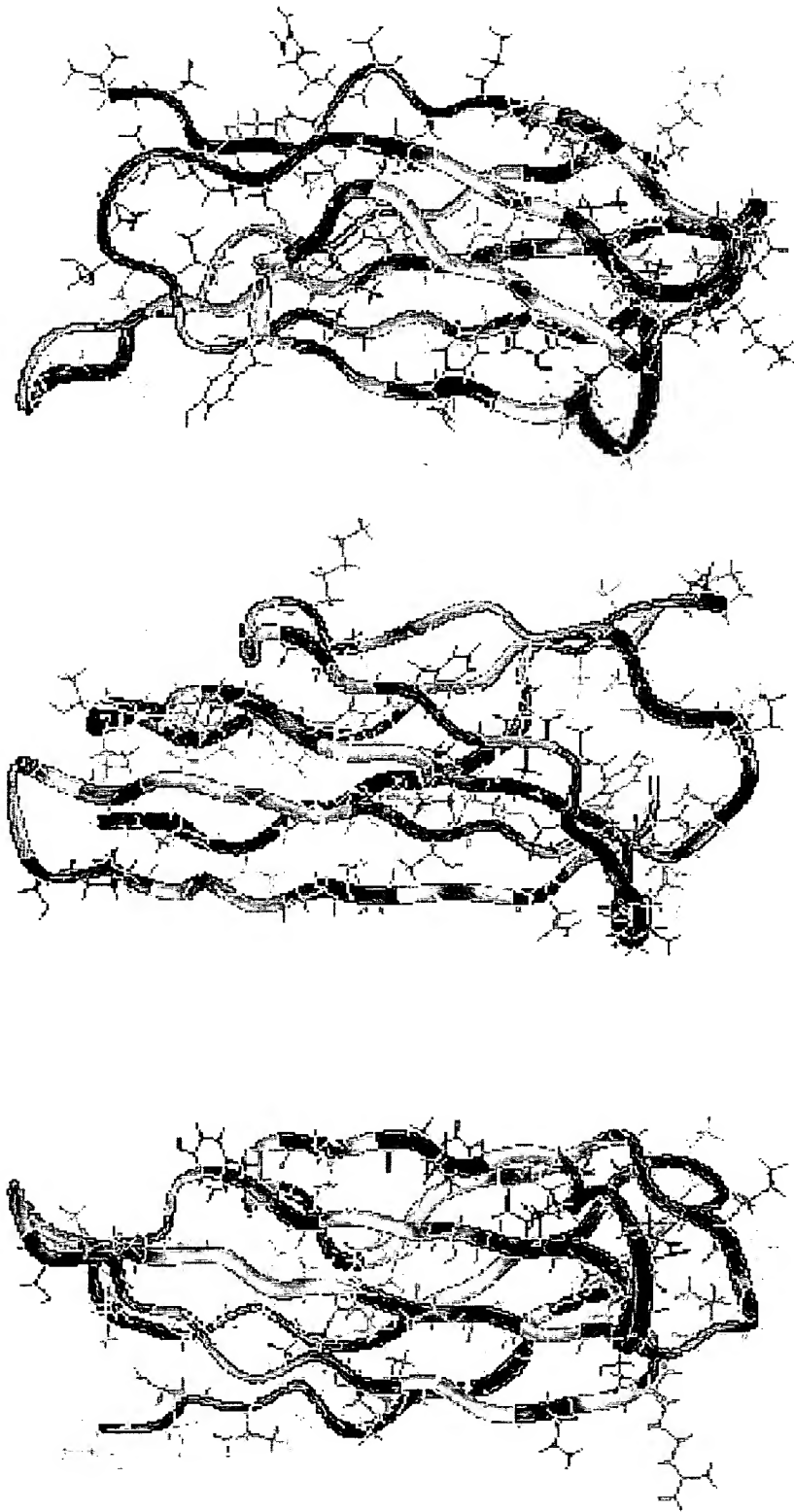


Fig. 5

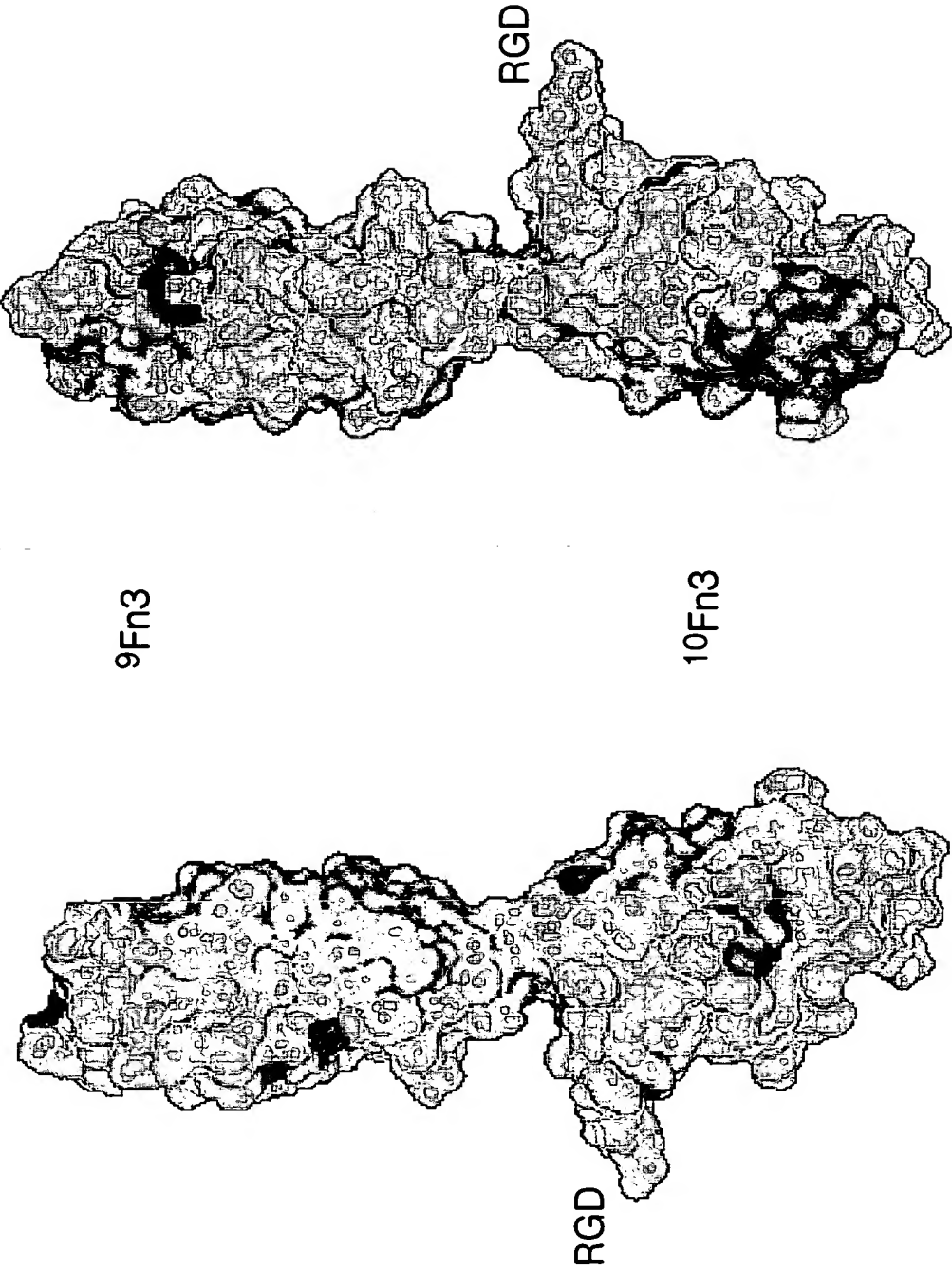


Fig. 6

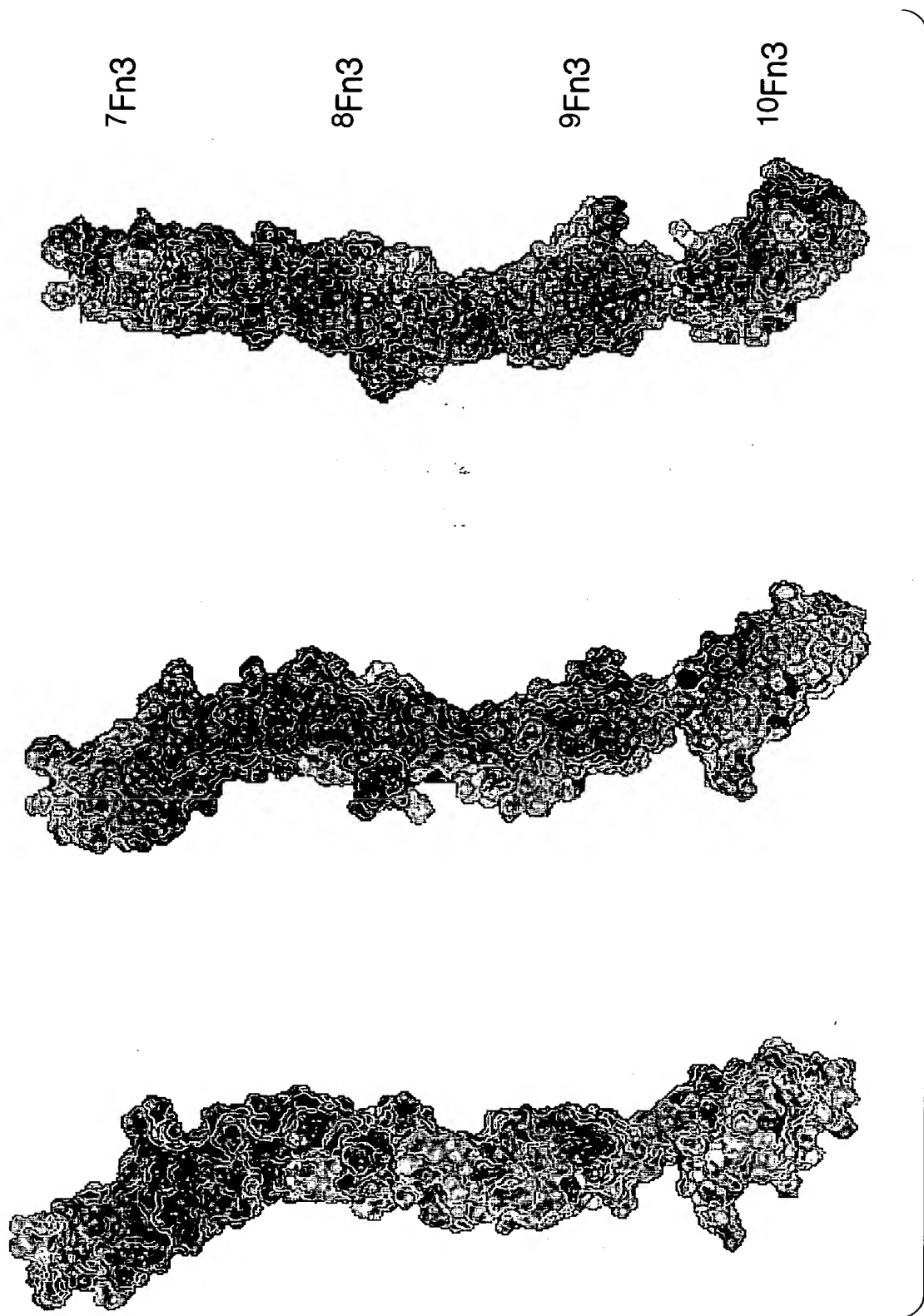


Fig. 7

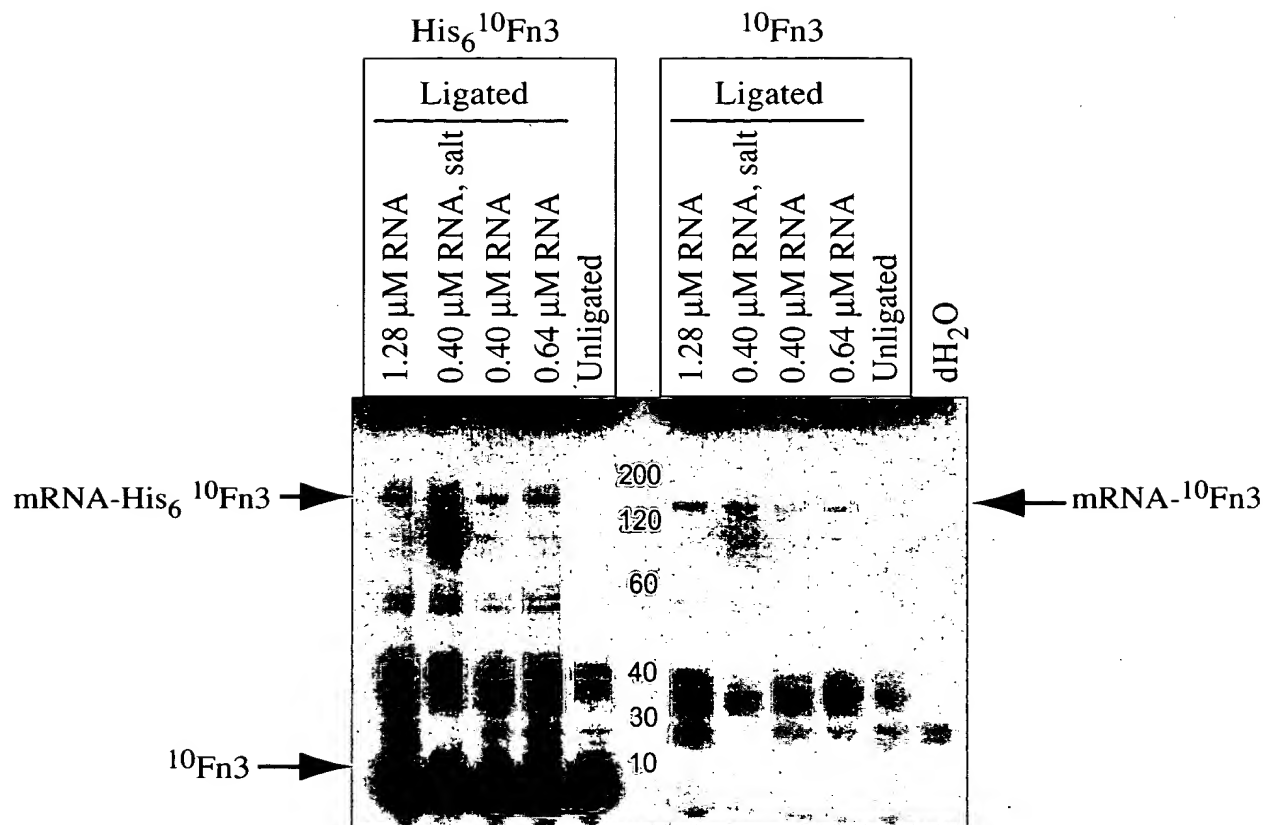


Fig. 8

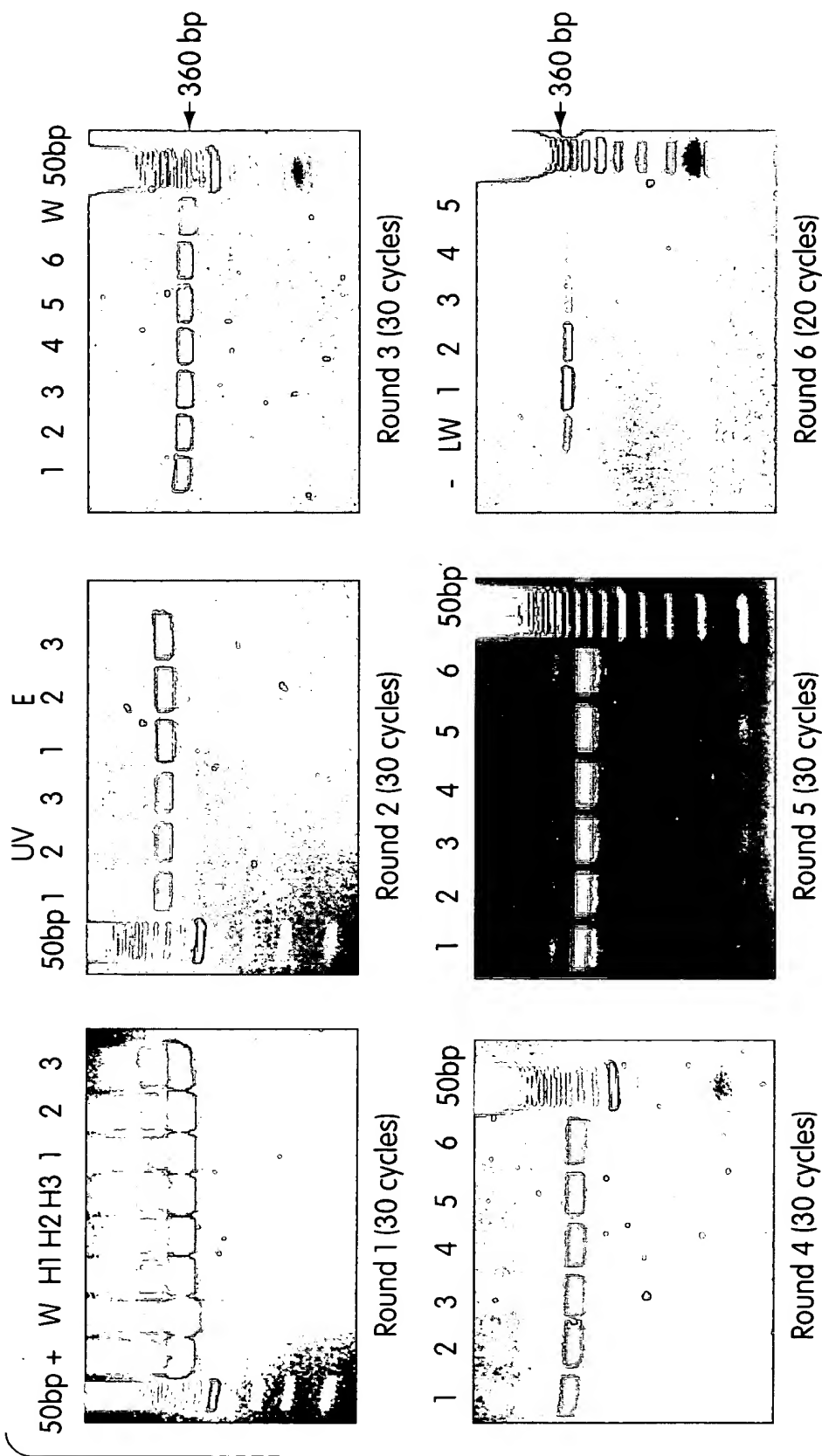


Fig. 9

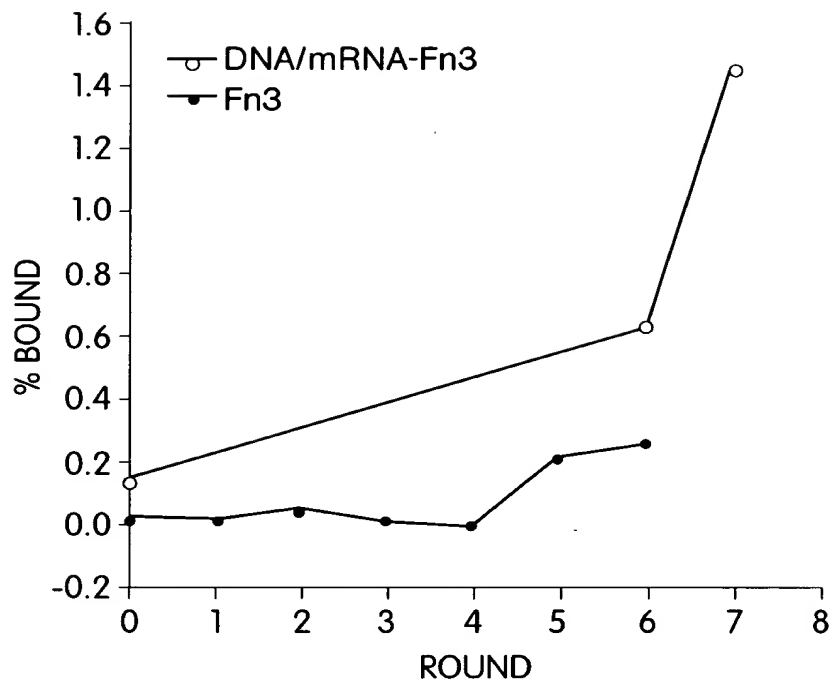


Fig. 10

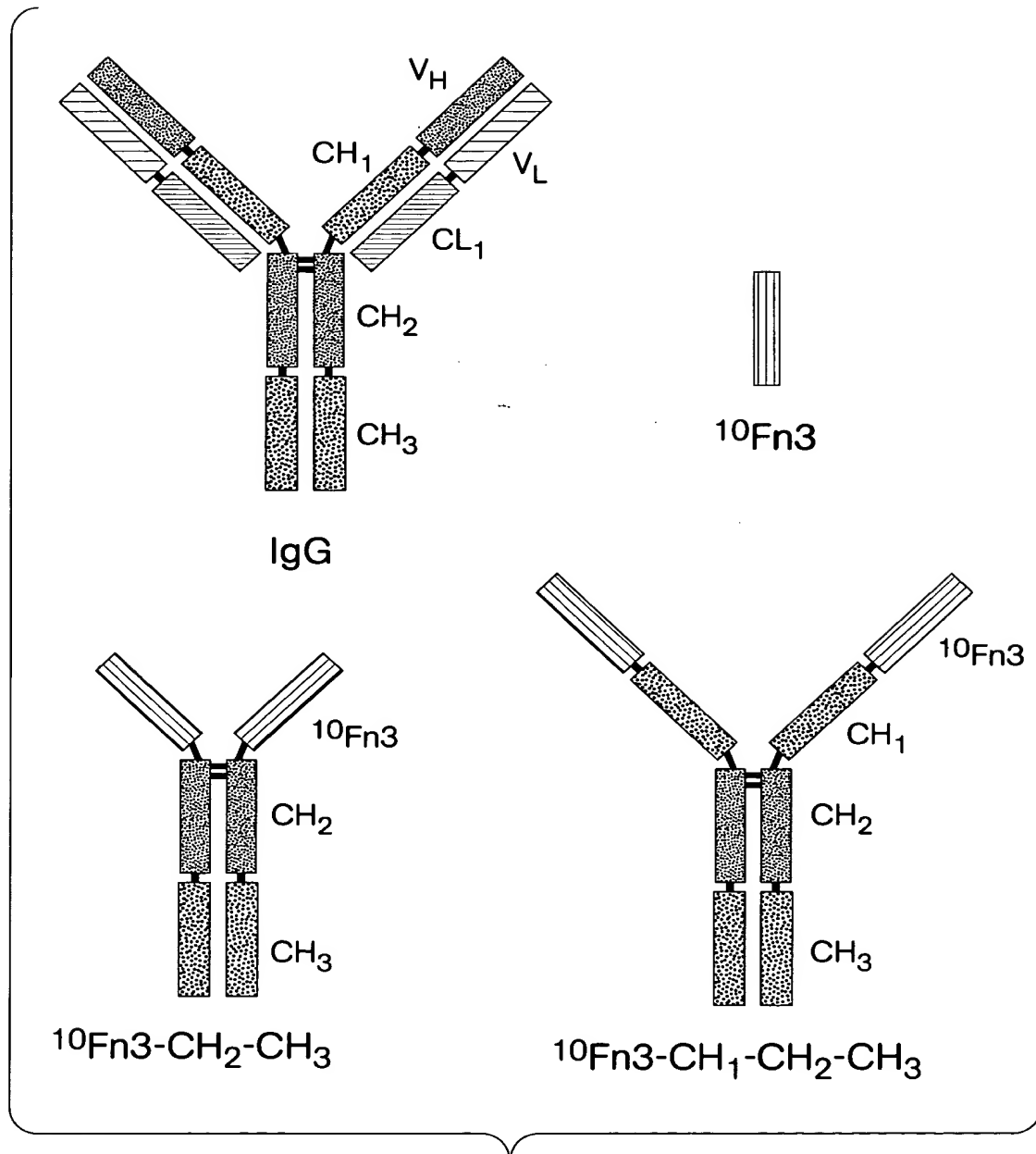


Fig. 11

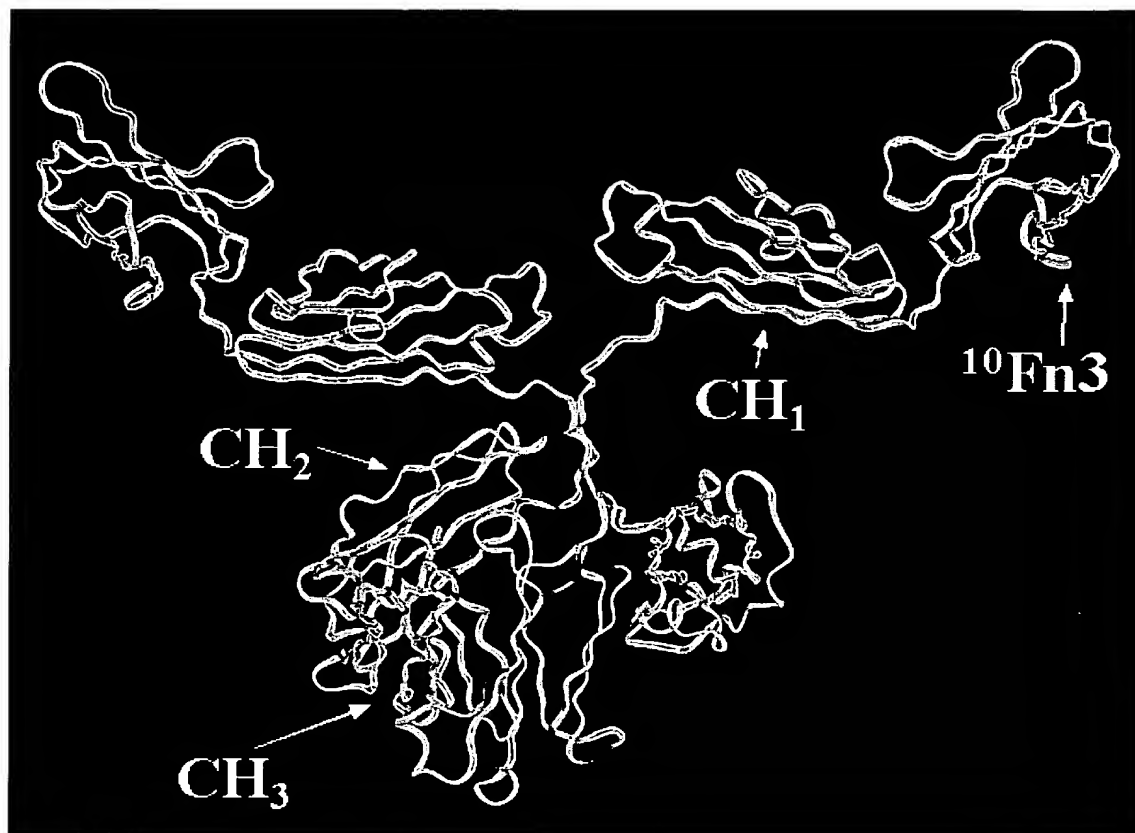


Fig. 12